Transcripts Exchange Service API Specification

This document outlines the technical requirements for interacting with the Transcripts Exchange Service provided by the Florida Department of Highway Safety and Motor Vehicles.

Transcript Exchange Service API Specification

This document will outline the information required to interface with the Transcript Exchange Service provided by the Florida Department of Highway Safety and Motor Vehicles (DHSMV). The intended audience for this document is those wishing to request driver history records from DHSMV.

The Transcript Exchange Service ("the service") is a web service[1] designed to return a driver's history, as recorded by DHSMV, to a client[2]. Clients of the service will have several options available to submit as parameters to the service which will affect the content of data returned by the service. Clients will also have the option of specifying whether or not a response will contain only driver history data—returned as XML[3]—or if an optional PDF[4] will be included.

The service is designed as a RESTful web service. A web service is said to be "RESTful" if it is built in the REST architectural style. The REST architectural style provides a uniform interface similar to those already found on the World Wide Web. RESTful web services are more light-weight than similar SOAP[5] web services. RESTful services are built atop of existing HTTP technologies, and most often use the same set of verbs that normal HTTP requests use—they are not limited to just these verbs, though. While not required, it is advisable for you to have someone familiar with the HTTP protocol at your disposal when developing your client.

SOAP uses a description format known as Web Services Description Language (http://www.w3.org/TR/wsdl). Such descriptions are often found in WSDL files (i.e. files with a ".wsdl" extension). REST does not use such files to describe services built in such an architectural style. Take note: *You **will not** be provided a WSDL file for this service. The features, endpoints, parameters, and return values which comprise this service will be described within this document. The Department also **does not** offer any WADL (Web Application Description Language) files for this service.*

---

[1] A web service is functionality that a computer system exposes over a computer network—including the Internet. Consumption of a web service may or may not require custom programming. Whether or not custom programming is required will be dependent on the service itself, and possibly on the client's environment.

[2] Within this document, the term "client" is intended to mean any computer system external to DHSMV that connects to and consumes the service.

[3] Extensible Markup Language (XML) is a computer language (text-based) for representing data in a hierarchical structure. XML uses markup tags to identify data elements. The reading and manipulation of XML documents is outside the scope of this document, but such information is easily located via an Internet search.

[4] Adobe Portable Document Format (PDF) is an electronic document format introduced by Adobe Systems. It is a standardized document format found across various computing platforms. Applications for displaying PDF documents (readers) are freely available, and can be located for your environment via an Internet search. DHSMV neither endorses nor supports any specific reader.

[5] Simple Object Access Protocol (SOAP) is a protocol for exchanging data between computer systems. As SOAP is not offered by the service, its discussion is outside the scope of this document.

Revision History

Version	Date	Author	Description
1.0	February 11, 2013	Kenneth Kaufmann	Initial Draft
1.1	May 29, 2013	Kenneth Kaufmann	Revised service parameters; miscellaneous corrections
1.2	July 03, 2013	Kenneth Kaufmann	Added error message description and parameter code descriptions.
1.3	December 11, 2013	Kenneth Kaufmann	Updated reprint parameter description.

Contents

What the Service Provides

The service is designed to return driver history data. This data can be returned by the service in two formats: XML and PDF. Every call to the service which finds exactly one matching record will be returned XML data corresponding to the driver's history record; a PDF will only be included in a service response if the appropriate parameter is set. The following further describes each of the items returned by the service.

XML

The service returns its query results as XML. While every response from the service will be formatted as XML, the driver's history data will only be included in the response if the query to the service finds exactly one matching record. Every query that matches exactly one record based on the supplied criteria will be returned the driver's history data as XML—there is no mechanism to disable this feature. The XML data representing a driver's history record will be located within the "Transcript" element within the service response XML.

The XML representation of the driver history record is provided for the benefit of clients who require data only. For clients wishing to print a copy of a driver history record, DHSMV requires that clients request the optional PDF representation of the driver history record.

PDF

The service also provides a visual, printable representation of the driver history record in the form of a PDF file. The service will return a PDF only if the request parameter specifies the appropriate value. The PDF will be included in the response XML within the "TranscriptPdf" element. The binary data for the PDF will be base-64 encoded, and the resulting string will be included within the "TranscriptPdf" element.

Before You Begin

Prior to interacting with the service, you will need to satisfy several prerequisites:

- A Memorandum of Understanding signed by an authorized representative of your organization shall be on file with DHSMV.
- A service account specific to your organization will be issued by DHSMV to your organization once you have satisfied all prerequisites. This account will be used to authenticate with the service. This particular account will be used only for testing, and it will not be valid for production queries.

Only once the above prerequisites have been satisfied will you be permitted to access the service.[6]

---

[6] If your organization is an entity that is contracted with the Florida Clerks of Courts and Comptrollers (FCCC), then you will not be required to have an active MOU on file. Please contact FCCC to acquire your service account credentials.

Memorandum of Understanding

A Memorandum of Understanding (MOU) is a legal contract between your organization and DHSMV. It dictates the rules regarding your use of the service and your use of the data you retrieve from the service. An active and non-expired MOU must be on file with DHSMV in order for you to use the service. Upon expiration of your MOU, your access to the service will be terminated. For information regarding MOUs, please contact the Data Listing Unit via email at datalistingunit@flhsmv.gov during normal business hours.

API Help

The service provides a help page that is located at:

   https://betaservices.flhsmv.gov/Transcripts/

This help page provides an explanation of the service parameters for each search type in addition to providing examples of the service request and response data.

Service Endpoint

The service provides a single endpoint. This endpoint is located at:

https://betaservices.flhsmv.gov/Transcripts/api/Transcript/GetTranscript

Service Accounts

The service is secured through a combination of HTTPS[7] and *basic authentication*. Hypertext Transfer Protocol Secured (HTTPS) is a communication protocol which secures HTTP communication across a computer network. Basic authentication is a feature of the HTTP(S) protocol which allows a username and password to be submitted within the header of an HTTP(S) request. You will submit a username and password within your requests to the service.

Once DHSMV has your signed [MOU](#) on file, DHSMV will issue your organization a username and password for the TEST environment; you cannot set this up yourself. During testing, these credentials will be submitted in the request header of *every request* you send to the service. Missing or invalid credentials will result in an error message being returned to your client application. Also, credentials set up in the PRODUCTION environment **will not** work in the TEST environment.

When your client has been established as production ready, you will be permitted access to DHSMV's Partner Portal web application. With this application you will be able to create your own PRODUCTION service account(s). During production running of your application, the credentials you set up via the Partner Portal application will be submitted in the request header of *every request* you send to the service. Missing or invalid credentials will result in an error message being returned to your client application. Also, credentials you used during testing within the TEST environment **will not** work in the PRODUCTION environment.

Note*: In the interest of security, DHSMV **will not** create PRODUCTION service accounts for you, and DHSMV **will not** have any way of recovering lost service account passwords for you. However, you have the ability of logging into the Partner Portal application and resetting your own service-account passwords*.

---

[7] Many programming languages handle HTTPS logic for you. DHSMV cannot provide any support as to existing or custom implementations of HTTPS handling within any programming language.

Administrative Accounts

Administrative accounts ("admin accounts") are accounts which you will use to log into the Partner Portal application (https://betaservices.flhsmv.gov/PartnerPortal). Via the Partner Portal application, an admin account will be used by you to create a service account, which your client will use to interact with the service. ***Do not use your admin account as credentials to the service. Any admin account sent in a request to the service will result in the service returning an error message to your client application.***

Service Environments

There are two service environments provided to you: TEST and PRODUCTION. The TEST environment is available to you for development of your client; the PRODUCTION environment will be used by your client once you have completed testing within the TEST environment, and you are ready to make production queries.

Test

You will be required to complete ample testing against the TEST environment before your client will be considered "production ready." Testing will include your software client's ability to both connect to the TEST service endpoint, as well as your client's ability to retrieve data for a valid test subject. A list of valid test subject criteria can be found in Appendix A.

The TEST environment contains sample data, and it does not contain production information. Any PDF documents retrieved from the service from within the TEST environment will be emblazoned with an overlay denoting that the document is for testing purposes only.

Production

The PRODUCTION environment is what your client will query once your client has been approved by DHSMV. PRODUCTION data is live data, and use of such data will be governed by your MOU. Any PDF documents retrieved from the PRODUCTION environment will not display an overlay.

Service Parameters

The service accepts a number of parameters which will affect the data contained within the service's response. Which parameters your client sends and how your client sets the values for each parameter it sends will determine what data you receive from the service and how that information is returned to you. All parameters are validated for correctness, so you must ensure that your client sends each parameter in the manner described by this document. For a list of the service's parameters along with each parameter's acceptable values and whether or not each parameter is required or optional, please consult Appendix E.

Service Requests

As previously mentioned, the service is built in a RESTful style. REST relies on the HTTP protocol. Your client will issue HTTP requests to the service in order to retrieve driver history records. To successfully interact with the service, your client must follow the HTTP protocol.

An HTTP request will have a header section and optionally a body section. The first line of the header is the request line, and it specifies the HTTP verb for the request as well as the resource being requested. All queries to the service will be accomplished using the GET http verb. *No other HTTP verbs are supported by the service, and your client should not use any HTTP verbs other than GET*. Within the request line, you will include the path to the resource you are requesting. Everything after "http://services.flhsmv.gov" within the service URL is considered the resource you are requesting. You will include your parameters to the service as a query string (defined by RFC2396 [http://www.ietf.org/rfc/rfc2396.txt]) appended to the resource within the request line.

All lines after the request line, but before the first blank line are considered header lines. Within the header section of every request you send to the service, you will pass your service account credentials within an "Authorization" header. Credentials within this header will be base-64 encoded, as defined by RFC2617 (http://tools.ietf.org/html/rfc2617#section-2). Any request which is missing this header or which incorrectly specifies the credentials within the header will result in the service returning an error response to your client application.

While not technically forbidden by the HTTP specification, GET requests typically do not contain a request body the way a POST or PUT might. Body content received by the service will be ignored. *Do not put your parameters into the request body. Parameters located in the request body will not be processed by the service, and the service will return an error response to your client application*.

See Appendix B for a sample HTTP request.

Service Responses

The service returns data following the HTTP protocol. The service will return an HTTP response to your client once it has completed searching. To successfully receive data from the service, your client must follow the HTTP protocol. See Appendix B for a sample HTTP response

An HTTP response will have a header section and optionally a body section. The first line of the header is the status line, and it specifies a status corresponding to how a server satisfied a request. A list of common statuses can be found in Appendix C. This list is not comprehensive, but should encompass the more common statuses you may receive from the service. You may contact DHSMV regarding any status you receive which is not mentioned within the appendix.

All lines after the status line, but before the first blank line are considered header lines. Depending on your programming language's HTTP implementation, you may or may not need to understand these headers. Each header and its corresponding explanation can easily be located via an Internet search.

The content body of a response to a successful service request will be comprised of XML data. This data will consist of information pertaining to your transaction as well as data related to the driver history record which was requested from the service. The structure of XML returned by the service varies based on the various results which can occur during a query. In general, the structure of the returned XML will be:

```
<TranscriptRecordResponse>
  <Status></Status>
  <Transaction>
    <TransactionId></TransactionId>
    <TransactionAmount></TransactionAmount>
  </Transaction>
  <RecordCount></RecordCount>
  <Transcript></Transcript>
  <PartialTranscripts></PartialTranscripts>
  <TranscriptPdf></TranscriptPdf>
</TranscriptRecordResponse>
```

See Appendix F for an overview of each node listed above.

Response Scenarios

The following are results you can expect to receive during your use of the service.

Record Not Found

In the event that your query returns no results, then the XML response will indicate a status of "NF," and it will also indicate a "RecordCount" equal to "0." You may need to revise your query in order to locate a transcript record. Neither the "Transcript," "PartialTranscripts," nor the "TranscriptPdf" elements will contain data in this scenario.

Multiple Records Found

In the event that your query returns multiple records, then the XML response will indicate a status of "MF," and it will also indicate a "RecordCount" equal to the number of records which matched the search criteria supplied to the service. Neither the "Transcript" nor the "TranscriptPdf" elements will contain data; however, the "PartialTranscripts" element will be populated with "RecordCount" number of elements. Each of these elements will contain information which you can use on a subsequent search in order to return a single record.

The service permits queries which accept either 12- or 13-character DLNs as search criteria. When querying the service, use of a 12-character DLN is not guaranteed to return a single, matching record. However, the "PartialTranscripts" element will contain—for each item—a 13-character DLN as one of the data elements it returns. Searching with the 13-character DLN is guaranteed to return a single record. Note: *Child elements under the "PartialTranscripts" element will also contain first name, middle name, last name, and birth date. Searching by any (or all) of these values is not guaranteed to return a single record. Only searching by a 13-character DLN will guarantee that you receive one record in the service response.*

Single Record Found

In the event that your query returns a single record, then the XML response will indicate a status of "OK," and it will indicate a "RecordCount" equal to "1." The "PartialTranscripts" element will not be populated. The "Transcript" element will be populated with data related to the matching driver history record.

If the "PdfType" parameter was supplied with a value indicating that a PDF should be returned, then a PDF file will be included in the response XML. The PDF will be a visual representation of all of the driver history record's information as found within the data XML. The binary data of the PDF will be transmitted as base-64-encoded string. This string will be located within an XML element named "TranscriptPdf." You can decode this string, and you can write the file out to disk in order to view the document in a PDF reader. *The encoded string will not be viewable as a PDF. Failure to decode the base-64 representation of the file before writing the data to disk will also not yield a viewable PDF. You must decode the base-64 data before you will be able to view the PDF.*

Appendix A – Test Subjects

The following are criteria pertaining to test accounts that are set up in the TEST environment for your use.

Driver License Number (DLN)	First Name	Middle Initial	Last Name	Date Of Birth (DOB)	Sex
P142455795010	Jane	Q	Public	01/01/1979	F
P142475700010	John	Q	Public	01/01/1970	M

You may use the DLN "X123456789012" to test a "not found" scenario.

Appendix B – HTTP Requests and Responses

Sample HTTP Request

Note: *Due to formatting, the following text wraps. To view the requests as you would see it in an HTTP request, copy and paste each of the following into a text editor which permits viewing longer lines of text*.

DLN Search
```
GET /api/Transcript/GetTranscript?SearchType=DLN&DriverLicenseNumber=
P142475700010&TranscriptType=1&
PdfType=U&ChargeFee=True&Reprint=False&BlockPersonalInfo=1 HTTP/1.1
Host: betaservices.flhsmv.gov:80
Authorization: Basic aGVsbG86d29ybGQ=
```

NDS Search
```
GET /api/Transcript/GetTranscript?
SearchType=NDS&FirstName=JOHN&MiddleName=Q&LastName=PUBLIC&DateOfBirth
=01/01/1970&Sex=M&TranscriptType=1&
PdfType=U&ChargeFee=True&Reprint=False&BlockPersonalInfo=1 HTTP/1.1
Host: betaservices.flhsmv.gov:80
Authorization: Basic aGVsbG86d29ybGQ=
```

Sample HTTP Responses

Note: *Due to formatting, the following text wraps. To view the responses as you would see it in an HTTP response, copy and paste each of the following into a text editor which permits viewing longer lines of text.*

Record Not Found

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/xml; charset=utf-8
Expires: -1
Date: Thu, 07 Feb 2013 19:07:55 GMT
Content-Length: 2322
```

```
<TranscriptRecordResponse xmlns:i="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://schemas.datacontract.org/2004/07/TranscriptService"><Status>NF<
/Status><Transaction><TransactionId>6587</TransactionId><TransactionAmount>2.
00</TransactionAmount></Transaction><RecordCount>0</RecordCount><Error
i:nil="true" /><Transcript><DriverLicenseNumber i:nil="true"
/><TranscriptDate>0001-01-01T00:00:00</TranscriptDate><DriverStatusSummary
i:nil="true" /><FirstName i:nil="true" /><MiddleName i:nil="true" /><LastName
i:nil="true" /><NameSuffix i:nil="true" /><BirthDate i:nil="true" /><Sex
i:nil="true" /><Height i:nil="true" /><Race i:nil="true"
/><SocialSecurityNumber i:nil="true" /><DeceasedDate i:nil="true"
/><MailingAddress><StreetAddress i:nil="true" /><ApartmentNumber i:nil="true"
/><City i:nil="true" /><StateCode i:nil="true" /><ZipCode i:nil="true"
/><ZipPlus i:nil="true" /><ForeignPostalCode i:nil="true" /><County
i:nil="true" /></MailingAddress><ResidentialAddress><StreetAddress
i:nil="true" /><ApartmentNumber i:nil="true" /><City i:nil="true"
/><StateCode i:nil="true" /><ZipCode i:nil="true" /><ZipPlus i:nil="true"
/><ForeignPostalCode i:nil="true" /><County i:nil="true"
/></ResidentialAddress><CurrentLicenseType i:nil="true"
/><CurrentLicenseTypeDescription i:nil="true" /><FloridaOnlyMessage
i:nil="true" /><PriorLicenseNumber i:nil="true" /><PriorState i:nil="true"
/><OriginalLicenseIssuedDate i:nil="true" /><OriginalCDLIssuedDate
i:nil="true" /><OperatorLicenseIssueDate i:nil="true"
/><OperatorLicenseExpireDate i:nil="true" /><OperatorLicenseStatus
i:nil="true" /><CDLIssueDate i:nil="true" /><CDLExpireDate i:nil="true"
/><CDLStatus i:nil="true" /><CDLLicenseClass i:nil="true" /><IDCardIssueDate
i:nil="true" /><IDCardExpireDate i:nil="true" /><IsIDCardPermanent
i:nil="true" /><TemporaryPermitIssueDate i:nil="true"
/><TemporaryPermitExpireDate i:nil="true" /><TemporaryPermitMotorcycleAlso
i:nil="true" /><CDLTemporaryPermitIssueDate i:nil="true"
/><CDLTemporaryPermitExpireDate i:nil="true" /><IssuanceHistory /><Exams
i:nil="true" /><CdlExams i:nil="true" /><Restrictions /><Endorsements
/><SpecialDriverInformation /><Sanctions /><Violations /><Crashes
/><DriverSchools /><Correspondences /></Transcript><PartialTranscripts
/><TranscriptPdf i:nil="true" /></TranscriptRecordResponse>
```

Single Record Found

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/xml; charset=utf-8
Expires: -1
Date: Thu, 07 Feb 2013 19:12:56 GMT
Content-Length: 2322
```

```
<TranscriptRecordResponse xmlns:i="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://schemas.datacontract.org/2004/07/TranscriptService"><Status>NF<
/Status><Transaction><TransactionId>6594</TransactionId><TransactionAmount>2.
00</TransactionAmount></Transaction><RecordCount>0</RecordCount><Error
i:nil="true" /><Transcript><DriverLicenseNumber i:nil="true"
/><TranscriptDate>0001-01-01T00:00:00</TranscriptDate><DriverStatusSummary
i:nil="true" /><FirstName i:nil="true" /><MiddleName i:nil="true" /><LastName
i:nil="true" /><NameSuffix i:nil="true" /><BirthDate i:nil="true" /><Sex
i:nil="true" /><Height i:nil="true" /><Race i:nil="true"
/><SocialSecurityNumber i:nil="true" /><DeceasedDate i:nil="true"
/><MailingAddress><StreetAddress i:nil="true" /><ApartmentNumber i:nil="true"
/><City i:nil="true" /><StateCode i:nil="true" /><ZipCode i:nil="true"
/><ZipPlus i:nil="true" /><ForeignPostalCode i:nil="true" /><County
i:nil="true" /></MailingAddress><ResidentialAddress><StreetAddress
i:nil="true" /><ApartmentNumber i:nil="true" /><City i:nil="true"
/><StateCode i:nil="true" /><ZipCode i:nil="true" /><ZipPlus i:nil="true"
/><ForeignPostalCode i:nil="true" /><County i:nil="true"
/></ResidentialAddress><CurrentLicenseType i:nil="true"
/><CurrentLicenseTypeDescription i:nil="true" /><FloridaOnlyMessage
i:nil="true" /><PriorLicenseNumber i:nil="true" /><PriorState i:nil="true"
/><OriginalLicenseIssuedDate i:nil="true" /><OriginalCDLIssuedDate
i:nil="true" /><OperatorLicenseIssueDate i:nil="true"
/><OperatorLicenseExpireDate i:nil="true" /><OperatorLicenseStatus
i:nil="true" /><CDLIssueDate i:nil="true" /><CDLExpireDate i:nil="true"
/><CDLStatus i:nil="true" /><CDLLicenseClass i:nil="true" /><IDCardIssueDate
i:nil="true" /><IDCardExpireDate i:nil="true" /><IsIDCardPermanent
i:nil="true" /><TemporaryPermitIssueDate i:nil="true"
/><TemporaryPermitExpireDate i:nil="true" /><TemporaryPermitMotorcycleAlso
i:nil="true" /><CDLTemporaryPermitIssueDate i:nil="true"
/><CDLTemporaryPermitExpireDate i:nil="true" /><IssuanceHistory /><Exams
i:nil="true" /><CdlExams i:nil="true" /><Restrictions /><Endorsements
/><SpecialDriverInformation /><Sanctions /><Violations /><Crashes
/><DriverSchools /><Correspondences /></Transcript><PartialTranscripts
/><TranscriptPdf i:nil="true" /></TranscriptRecordResponse>
```

Multiple Records Found

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/xml; charset=utf-8
Expires: -1
Date: Thu, 07 Feb 2013 19:18:19 GMT
Content-Length: 2857
```

```xml
<TranscriptRecordResponse xmlns:i="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://schemas.datacontract.org/2004/07/TranscriptService"><Status>MF<
/Status><Transaction><TransactionId i:nil="true" /><TransactionAmount
i:nil="true" /></Transaction><RecordCount>2</RecordCount><Error i:nil="true"
/><Transcript><DriverLicenseNumber i:nil="true" /><TranscriptDate>0001-01-
01T00:00:00</TranscriptDate><DriverStatusSummary i:nil="true" /><FirstName
i:nil="true" /><MiddleName i:nil="true" /><LastName i:nil="true"
/><NameSuffix i:nil="true" /><BirthDate i:nil="true" /><Sex i:nil="true"
/><Height i:nil="true" /><Race i:nil="true" /><SocialSecurityNumber
i:nil="true" /><DeceasedDate i:nil="true" /><MailingAddress><StreetAddress
i:nil="true" /><ApartmentNumber i:nil="true" /><City i:nil="true"
/><StateCode i:nil="true" /><ZipCode i:nil="true" /><ZipPlus i:nil="true"
/><ForeignPostalCode i:nil="true" /><County i:nil="true"
/></MailingAddress><ResidentialAddress><StreetAddress i:nil="true"
/><ApartmentNumber i:nil="true" /><City i:nil="true" /><StateCode
i:nil="true" /><ZipCode i:nil="true" /><ZipPlus i:nil="true"
/><ForeignPostalCode i:nil="true" /><County i:nil="true"
/></ResidentialAddress><CurrentLicenseType i:nil="true"
/><CurrentLicenseTypeDescription i:nil="true" /><FloridaOnlyMessage
i:nil="true" /><PriorLicenseNumber i:nil="true" /><PriorState i:nil="true"
/><OriginalLicenseIssuedDate i:nil="true" /><OriginalCDLIssuedDate
i:nil="true" /><OperatorLicenseIssueDate i:nil="true"
/><OperatorLicenseExpireDate i:nil="true" /><OperatorLicenseStatus
i:nil="true" /><CDLIssueDate i:nil="true" /><CDLExpireDate i:nil="true"
/><CDLStatus i:nil="true" /><CDLLicenseClass i:nil="true" /><IDCardIssueDate
i:nil="true" /><IDCardExpireDate i:nil="true" /><IsIDCardPermanent
i:nil="true" /><TemporaryPermitIssueDate i:nil="true"
/><TemporaryPermitExpireDate i:nil="true" /><TemporaryPermitMotorcycleAlso
i:nil="true" /><CDLTemporaryPermitIssueDate i:nil="true"
/><CDLTemporaryPermitExpireDate i:nil="true" /><IssuanceHistory /><Exams
i:nil="true" /><CdlExams i:nil="true" /><Restrictions /><Endorsements
/><SpecialDriverInformation /><Sanctions /><Violations /><Crashes
/><DriverSchools /><Correspondences
/></Transcript><PartialTranscripts><PartialTranscript><DriverLicenseNumber>P1
42475700010</DriverLicenseNumber><County>LEON</County><FirstName>JOHN</FirstN
ame><MiddleName>Q</MiddleName><LastName>PUBLIC</LastName><NameSuffix
i:nil="true" /><BirthDate>1970-01-
01T00:00:00</BirthDate></PartialTranscript><PartialTranscript><DriverLicenseN
umber>P142475700012</DriverLicenseNumber><County>LEON</County><FirstName>JOHN
</FirstName><MiddleName>Q</MiddleName><LastName>PUBLIC</LastName><NameSuffix
i:nil="true" /><BirthDate>1970-01-
01T00:00:00</BirthDate></PartialTranscript></PartialTranscripts><TranscriptPd
f i:nil="true" /></TranscriptRecordResponse>
```

Appendix C - HTTP Status Codes and Descriptions

The following are HTTP status codes, along with their descriptions, which you may receive during use of the service.

HTTP Code	HTTP Reason	Description
200	OK	Your request to the service was returned without error. "Without error" means that no HTTP or server-level errors were encountered; it **does not** mean that a record was not found. Even when a record is not found, you will receive a "200 OK", where the body of the HTTP response will contain XML regarding your transaction.
401	Unauthorized	The credentials passed within the "Authorization" header of your HTTP request did not pass validation.
500	Internal Server Error	The server has experienced an abnormal operation. You will not be able to correct the issue, and you should contact DHSMV for further information and assistance.

Appendix D - Query Status Codes and Descriptions

The following are status codes which will be found in the "Status" element of the XML response returned by the service.

Status Code	Description
OK	A single driver history record was located and returned by the service.
NF	No record was located by the service.
MF	Multiple records matched the criteria submitted for the search. Narrow the search by using one of DLNs found within the "PartialTranscripts" element.
ER	There was an error detected in one of the parameters sent to the service. Refer to the message in the "ErrorText" element for details regarding the specific error.

Appendix E – Search Parameters

The following is a list of the search parameters offered by the service. A description of each parameter, its acceptable values, and whether the parameter is optional or required is included. **Bold** text denotes a parameter is always required; *italic* text denotes a parameter is conditionally required.

Parameter Name	Description	Valid Values	Required/ Optional
SearchType	Denotes the kind of search being performed.	DLN – The search being performed will use a driver's license number as the search criteria. NDS – The search being performed will use a driver's name, date of birth, and sex as the search criteria.	**Required**
DriverLicenseNumber	This is the driver's license number being searched for. This parameter is only applicable if a SearchType of "DLN" is specified.	Any 12 or 13-character string. Driver license numbers can be of the format A99999999999 or A9999999999999.	*Required* if SearchType is "DLN"
FirstName	The first name of the driver being searched for. This parameter is only applicable if a SearchType of "NDS" is specified.	Any character string, up to 16 characters.	*Required* if SearchType is "NDS"
MiddleName	The middle name (or initial) of the driver being searched for. This parameter is only applicable if a SearchType of "NDS" is specified.	Any character string, up to 16 characters.	*Required* if SearchType is "NDS"
LastName	The last name of the driver being searched for. This parameter is only applicable if a SearchType of "NDS" is specified.	Any character string, up to 30 characters.	*Required* if SearchType is "NDS"

Continues on next page

Service Parameters Continued

Parameter Name	Description	Valid Values	Required/ Optional
DateOfBirth	The date of birth of the driver being searched for. This parameter is only applicable if a SearchType of "NDS" is specified.	Any valid date, formatted as MM/DD/YYYY.	*Required* if SearchType is "NDS"
Sex	The sex (gender) of the driver being searched for. This parameter is only applicable if a SearchType of "NDS" is specified.	M – The sex of the driver being sought is male. F – The sex of the driver being sought is female.	*Required* if SearchType is "NDS"
TranscriptType	The type of driver history record being requested. Types include a 3-year, 7-year, and a complete record.	1 – 3-year record 2 – 7-year record 3 – Complete record	**Required**
PdfType	The type of PDF to include in the service response, including no PDF.	N – No PDF in service response U – Include a non-certified PDF in service response	**Required**

Continues on next page

Service Parameters Continued

Parameter Name	Description	Valid Values	Required/ Optional
Reprint	Specifies whether or not the request is for a reprint of a previously requested driver history record. If not sent, the default value is *False*. ***Note***: Reprint requests are only valid within 24 hours of the original request for a transcript. If a reprint is requested, and a previous request is located by the service, and that previous request is within 24 hours of the current request, then there is no charge for the reprint. In order for a previous request to be located, all other parameters must be sent using the same values which were sent in the original request. Any discrepancy in these values will result in the reprint being denied.	True – The request should be treated as a reprint request. False – The request should be treated as an original request.	Optional
ChargeFee	Specifies whether or not the request is billable. If not sent, the default value is *True*. *This parameter is applicable only to customers whose* MOU *specifies this option. Passing this parameter with a value of* False *when your* MOU *does not explicitly declare your authorization to use the parameter will result in an error being returned by the service.*	True – The request will incur any applicable fees associated with the search result. False – The request shall not incur a fee, if the MOU permits use of this parameter value.	*Required* if vendor's MOU permits usage of this parameter.

Continues on next page

Service Parameters Continued

Parameter Name	Description	Valid Values	Required/ Optional
BlockPersonalInfo	Specifies whether or not to block specific pieces of data within the service response—including both the data and the PDF. If not sent, the default value is *False*.	1 – Name and address(es) will be removed from the XML data, and not displayed on the PDF. 2 – DLN and address(es) will be removed from the XML data, and not displayed on the PDF.	Optional

Appendix F – Service Response XML

XML Element	Description
Status	Indicates a general status regarding whether or not the query to the service succeeded. This status code is not related to the HTTP status code; it exclusively indicates the success or failure of your query within the service. See Appendix D for a list of status codes and their corresponding meanings.
Transaction	This element contains information regarding the billable transaction.
Transaction/TransactionId	This element is a unique identifier associated with the transaction. You will need this identifier for billing inquiries to DHSMV.
Transaction/TransactionAmount	This element is the amount your organization was billed for the transaction. Fees vary by transcript type and service result. Contact DHSMV for a complete list of fees associated with the use of this service.
RecordCount	This element contains a count of the number of records returned. The range of values for this element is any non-negative integer value.
Error	This element will be populated with information pertain to any error that occurred during the processing of a request. On success, this element will be empty.
Error/ErrorCode	This element contains a numeric code identifying the error. This code will be unique to the error returned by the service.
Error/ErrorText	This element will contain text describing the error encountered while processing the request.
Transcript	This element will contain the data corresponding to the driver history which matches the criteria you specified. This element will only contain data if your criteria yield a single matching record—any count other than one will result in this element being empty.

Continues on next page

Service Response XML Continued

PartialTranscripts	This element will contain a list of two or more entries which you will use to narrow a subsequent search. This element will only be populated if your criteria yield two or more matching records—if only a single record matches your supplied criteria, then this element will be empty. See Appendix F for a list of the data elements found within the "PartialTranscripts" element.
TranscriptPdf	This element will contain a base-64-encoded representation of the binary data which comprises the PDF file. This element will only be non-empty if a single record matches your supplied criteria, and then only if you have supplied an appropriate "PdfType" parameter in your request to the service.

Appendix G – Partial Transcript Data Elements

The following are the elements that will be returned within a "PartialTranscripts" XML element. This data will be used to narrow searches which return multiple results. Driver License Number (DLN) is the only datum which is guaranteed to return a single matching record. The other data is provided as an aid to the client for the purpose of narrowing down the search results to the particular individual being sought.

XML Element Name	Description
DriverLicenseNumber	A 13-character DLN which, when used as search criteria, will guarantee a single-record response from the service.
County	The residence county of the individual. This is used solely for identification of an individual within a multiple-result list. This datum will not be passed as search criteria for any search.
FirstName	The first name of the individual. This is used for identification of an individual within a multiple-result list. This datum can be used as search criteria for any search, but its use will not guarantee a single-record response by the service.
MiddleName	The middle name of the individual. This is used for identification of an individual within a multiple-result list. This datum can be used as search criteria for any search, but its use will not guarantee a single-record response by the service.
LastName	The last name of the individual. This is used for identification of an individual within a multiple-result list. This datum can be used as search criteria for any search, but its use will not guarantee a single-record response by the service.
BirthDate	The date of birth of the individual. This is used for identification of an individual within a multiple-result list. This datum can be used as search criteria for any search, but its use will not guarantee a single-record response by the service.

Appendix H – Error Codes and Error Messages

Error Codes

Following is a description of the error code values returned by the service. These are general errors describing the nature of the error.

Error Code	Description
11	Missing input. A required parameter's value was missing from the request.
12	Invalid input. The value passed for a parameter did not pass validation.
13	Authorization error. The credentials passed to the service are incorrect for the data exchange being requested.
15	Invalid contract options. Your contract requires a review by DHSMV. Contact DHSMV for assistance.
99	System-level error. Contact DHSMV for assistance.

Parameter Codes

Following is a description of the parameter codes returned by the service. A parameter code identifies the specific parameter that raised the error.

Error Code	Parameter Name
100	TranscriptType
101	PdfType
102	ChargeFee
103	BlockPersonalInfo
200	SearchType
201	DriverLicenseNumber
202	FirstName
203	MiddleName
204	LastName
205	DateOfBirth
206	Sex
207	Reprint

Error Messages

Following is a description of the error messages returned by the service. These are informational messages, and are subject to change. These messages should not be relied on for programmatic error handling within client software.

Error Message	Description
Missing Input: Search Type	The search type was not provided in the request.
Invalid Input: Search Type	The search type value supplied was not recognized as a valid search type.
Missing Input: Transcript Type	The transcript type value was not provided in the request.
Invalid Input: Transcript Type	The transcript type value supplied was not recognized as a valid transcript type.
Invalid Input: Transcript Type. Not authorized for requested transcript type.	The transcript type value supplied was recognized as a valid transcript type, but the vendor is not authorized to receive transcripts of that type.
Invalid Contract Options: SSN. Contact DHSMV for further assistance.	Your contract requires a review by DHSMV. Contact DHSMV for assistance.
Invalid Input: No fee and reprint parameters cannot both be true.	The no fee and reprint values were supplied, and both were set to a value of *true*. There is never a fee for a reprint, so the no fee parameter should always be set to *false* when requesting a reprint.
Invalid Input: No fee. Contact DHSMV for further assistance.	Your contract requires a review by DHSMV. Contact DHSMV for assistance.
Missing Input: Charge Fee.	The charge fee value was not provided in the request. If your MOU specifies that you can use this option, then it must be passed on every request to the service (excluding reprint requests).
Invalid Input: Reprint. Reprint reqeust denied. No matching request found in the last 24 hours.	The reprint value supplied was recognized as a valid value, but there was not a prior request for the same transcript within the last 24 hours. A new request for that transcript is required.
Missing Input: Pdf Type	The PDF type was not provided in the request.
Invalid Input: Pdf Type	The PDF type value supplied was not recognized as a valid PDF type.
Missing Input: Driver License Number	A search by driver license number was requested, but the driver license number was not provided in the request.
Invalid Input: Driver License Number	A search by driver license number was requested, but the driver license number value supplied was not recognized as a valid driver license number.
Missing Input: First Name	A search by name, DoB, and sex was requested, but the first name was not provided in the request.
Invalid Input: First Name. Wildcard not permitted as first character. (Leading and trailing spaces are not counted).	A search by name, DoB, and sex was requested, but the first name value supplied contained a wildcard (either '_' or '%') in the first character position. Spaces at the front and end of the value are removed prior to validation of this requirement.

Continues on next page

Error Messages Continued

Error Message	Description
Invalid Input: First Name. Multiple '%' wildcards are not permitted.	A search by name, DoB, and sex was requested, but the first name value supplied contained multiple '%' wildcard characters. Only one '%' is permitted, and it must be the last character of the value.
Invalid Input: First Name. If using the '%' wildcard, then it must be placed at the end of the string.	A search by name, DoB, and sex was requested, but the first name value supplied contained a '%' wildcard character that was not the last character (disregarding spaces that follow the '%') of the value. Only one '%' is permitted, and it must be the last character of the value.
Invalid Input: First Name. Cannot be greater than 16 characters in length. (Leading and trailing spaces are not counted.)	A search by name, DoB, and sex was requested, but the first name value supplied was greater in length, disregarding leading and trailing spaces, than 16 characters.
Missing Input: Last Name	A search by name, DoB, and sex was requested, but the last name was not provided in the request.
Invalid Input: Last Name. Must be at least 3 characters in length (excluding wildcards; leading and trailing spaces are not counted).	A search by name, DoB, and sex was requested, but the last name value supplied was 3 or fewer characters in length.
Invalid Input: Last Name. Wildcard not permitted as any of the first three characters. (Leading and trailing spaces are not counted.)	A search by name, DoB, and sex was requested, but the last name value supplied contained a wildcard (either '_' or '%') in the first character position. Spaces at the front and end of the value are removed prior to validation of this requirement.
Invalid Input: Last Name. Multiple '%' wildcards are not permitted.	A search by name, DoB, and sex was requested, but the last name value supplied contained multiple '%' wildcard characters. Only one '%' is permitted, and it must be the last character of the value.
Invalid Input: Last Name. If using the '%' wildcard, then it must be placed at the end of the string.	A search by name, DoB, and sex was requested, but the last name value supplied contained a '%' wildcard character that was not the last character (disregarding spaces that follow the '%') of the value. Only one '%' is permitted, and it must be the last character of the value.
Invalid Input: Last Name. Cannot be greater than 30 characters in length. (Leading and trailing spaces are not counted.)	A search by name, DoB, and sex was requested, but the last name value supplied was greater in length, disregarding leading and trailing spaces, than 30 characters.
Missing Input: Date of Birth	A search by name, DoB, and sex was requested, but the date of birth was not provided in the request.
Invalid Input: Date of Birth	A search by name, DoB, and sex was requested, but the last name value supplied was either not a valid date or it was prior to 01/01/1900.
Missing Input: Sex	A search by name, DoB, and sex was requested, but the sex was not provided in the request.

Continues on next page

Error Messages Continued

Error Message	Description
Invalid Input: Sex	A search by name, DoB, and sex was requested, but the sex value supplied was not recognized as a valid sex code.

End of Document